

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	16 FEB 2026
Team ID	LTVIP2026TMIDS87433
Project Name	Rain Prediction Pipeline Flask
Maximum Marks	5 Marks

#### Product Backlog & Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story No	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection (Epic 1)	USN-1	Gather rainfall/weather datasets from open sources (Kaggle/UCI)	2	High	Athreya
Sprint-1	Data Collection (Epic 1)	USN-2	Load dataset into project environment	1	High	Rohith
Sprint-1	Data Preparation (Epic 2)	USN-3	Handle missing values	3	High	Tarun
Sprint-1	Data Preparation (Epic 2)	USN-4	Feature engineering for better accuracy	3	Medium	Tarun
Sprint-1	Data Preparation (Epic 2)	USN-5	Fix data inconsistencies	3	Medium	Rohith
Sprint-2	Visualization (Epic 3)	USN-6	Display prediction results	2	Medium	Lavanya
Sprint-2	Visualization (Epic 3)	USN-7	Show model accuracy comparison	2	Medium	Lavanya

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story No</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Visualization (Epic 3)	USN-8	Display confusion matrix	2	Medium	Uday
Sprint-2	Visualization (Epic 3)	USN-9	Show ROC curve	4	High	Uday
Sprint-2	Flask Dashboard (Epic 4)	USN-10	Interactive Flask prediction UI	5	High	Athreya
Sprint-2	Documentation (Epic 5)	USN-11	Prepare project documentation	5	Medium	Rohith

#### **Project Tracker, Velocity & Burndown:**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date</b>	<b>Points Completed</b>	<b>Actual Release</b>
Sprint-1	12	6 Days	31-01-2026	04-02-2026	12	20-02-2026
Sprint-2	20	6 Days	04-02-2026	10-02-2026	12	20-02-2026
Sprint-3	20	6 Days	10-02-2026	16-02-2026	12	20-02-2026
Sprint-4	20	6 Days	22-02-2026	27-02-2026	12	20-02-2026

#### **Velocity**

- **Total Story Points = 12 + 20 = 32**
- **Number of Sprints = 2**
- **Velocity =  $32 \div 2 = 16$  Story Points per Sprint**

**If sprint duration = 10 days, then:**

- **Average Velocity (AV) per iteration unit =  $16 \div 10 = 1.6$  Story Points per Day**

---

## **Burndown Chart**

**A burndown chart will show:**

- **X-axis → Sprint days (time).**
- **Y-axis → Remaining story points.**
- **Line slopes downward as tasks are completed, ideally reaching zero by sprint end.**